



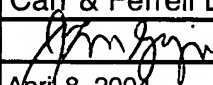
PTO/SB/21 (05-03)

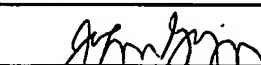
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/737,364	
	Filing Date	December 15, 2003	
	First Named Inventor	Youngwoo Kwon	
	Art Unit	Unknown	
	Examiner Name	Unknown	
Total Number of Pages in This Submission	11	Attorney Docket Number	PA2589US

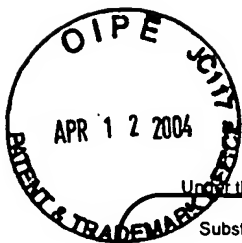
ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	(1) Confirmation Postcard; (2) PTO-SB-08 (x2);
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	(3) List of Co-Pending Patent Applications (x2);
<input type="checkbox"/> Certified Copy of Priority Document(s)	<b>Remarks</b>  Total page number does not include postcard, cited references or co-pending patent applications.	(4) 6 Cited References;
<input type="checkbox"/> Response to Missing Parts/Incomplete Application		(5) 2 Co-Pending Patent Applications;
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		(6) Duplicate of Information Disclosure Statement

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Carr & Ferrell LLP Cust. No. 22830
Signature	 Reg. No. 51,755
Date	April 8, 2004

CERTIFICATE OF TRANSMISSION/MAILING	
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.	
Typed or printed name	John C. Grieger, Reg. No. 51,755
Signature	 Date April 8, 2004

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PTO/SB/08a (05-03)

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

Application Number	10/737,364
Filing Date	December 15, 2003
First Named Inventor	Youngwoo Kwon
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	PA2589US

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 2,210,028	08-06-1940	Doherty	
		US- 4,335,363	06-15-1982	Bowers	
		US- 5,420,541	05-30-1995	Upton et al.	
		US- 5,568,086	10-22-1996	Schuss et al.	
		US- 5,786,727	07-28-1998	Sigmon	
		US- 5,880,633	03-09-1999	Leizerovich et al.	
		US- 6,374,092 B1	04-16-2002	Leizerovich et al.	
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**FOREIGN PATENT DOCUMENTS**

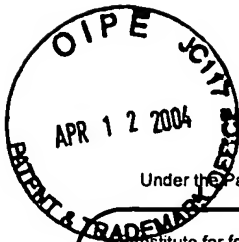
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
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**INFORMATION DISCLOSURE  
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Sheet

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of

2

**Complete if Known**

Application Number	10/737,364
Filing Date	December 15, 2003
First Named Inventor	Youngwoo Kwon
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	PA2589US

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		RAAB, F.H., "Efficiency of Doherty RF Power-Amplifier Systems," IEEE Transactions On Broadcasting, September 1987, pp. 77-83, Vol. BC-33.	
		IWAMOTO, M., et al., "An Extended Doherty Amplifier with High Efficiency Over a Wide Power Range," IEEE Transactions On Microwave Theory and Techniques, December 2001, pp. 2472-2479, Vol. 49, No. 12.	
		ZHAO, Y., et al., "Doherty Amplifier with DSP Control to Improve Performance in CDMA Operation," 2003 IEEE MTT-S Digest, 2003, pp. 687-690, IEEE.	
		LEES, J., et al. "Single-Tone Optimisation of an Adaptive-Bias Doherty Structure," 2003 IEEE MTT-S Digest, 2003, pp. 2213-2216, IEEE.	
		BAE, S., et al., "Bias-Switching Quasi-Doherty-Type Amplifier for CDMA Handset Applications," 2003 IEEE MTT-S Digest, 2003, pp. 137-140, IEEE.	
		WALLACE, L., "Amplifier Linearization Promotes Efficiency in Multi-Carrier WCDMA Basestation," EE Times, October 18, 2002, at <a href="http://www.eetimes.com/story/OEG20021018S0059">http://www.eetimes.com/story/OEG20021018S0059</a> .	

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 2

**Complete if Known**

Application Number	10/737,364
Filing Date	December 15, 2003
First Named Inventor	Youngwoo Kwon
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	PA2589US

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 2,210,028	08-06-1940	Doherty	
		US- 4,335,363	06-15-1982	Bowers	
		US- 5,420,541	05-30-1995	Upton et al.	
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**FOREIGN PATENT DOCUMENTS**

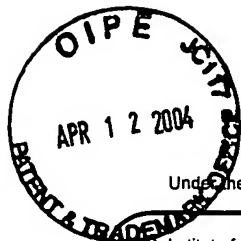
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

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STATEMENT BY APPLICANT**

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Sheet

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of

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**Complete if Known**

Application Number	10/737,364
Filing Date	December 15, 2003
First Named Inventor	Youngwoo Kwon
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	PA2589US

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		RAAB, F.H., "Efficiency of Doherty RF Power-Amplifier Systems," IEEE Transactions On Broadcasting, September 1987, pp. 77-83, Vol. BC-33.	
		IWAMOTO, M., et al., "An Extended Doherty Amplifier with High Efficiency Over a Wide Power Range," IEEE Transactions On Microwave Theory and Techniques, December 2001, pp. 2472-2479, Vol. 49, No. 12.	
		ZHAO, Y., et al., "Doherty Amplifier with DSP Control to Improve Performance in CDMA Operation," 2003 IEEE MTT-S Digest, 2003, pp. 687-690, IEEE.	
		LEES, J., et al. "Single-Tone Optimisation of an Adaptive-Bias Doherty Structure," 2003 IEEE MTT-S Digest, 2003, pp. 2213-2216, IEEE.	
		BAE, S., et al., "Bias-Switching Quasi-Doherty-Type Amplifier for CDMA Handset Applications," 2003 IEEE MTT-S Digest, 2003, pp. 137-140, IEEE.	
		WALLACE, L., "Amplifier Linearization Promotes Efficiency in Multi-Carrier WCDMA Basestation," EE Times, October 18, 2002, at <a href="http://www.eetimes.com/story/OEG20021018S0059">http://www.eetimes.com/story/OEG20021018S0059</a> .	

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IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):                Youngwoo Kwon et al.  
SERIAL NO.:                 10/737,364  
FILED:                        December 15, 2003  
TITLE:                        High Linearity Doherty Communication Amplifier with  
                                 Phase Control  
EXAMINER:                 Unknown  
GROUP ART UNIT:            Unknown  
ATTY.DKT.NO.:              PA2589US

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COMMISSIONER FOR PATENTS  
P.O. BOX 1450  
ALEXANDRIA, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**  
**Under 37 C.F.R. §§ 1.56, and 1.97-1.98**

SIR:

Pursuant to the provisions of 37 C.F.R. §§ 1.56 and 1.97-98 of the Rules of Practice in Patent Cases, enclosed herewith is form PTO-SB-08 and a List of Co-Pending Patent Applications, each listing several references. Copies of the cited nonpatent literature and the co-pending applications, except for the co-pending parent application (U.S. Application No. 10/432,553, filed May 21, 2003), are enclosed. The Examiner is requested to make these references of official record in the application. The references cited may be material to examination of the application and are submitted in compliance with Applicant(s)'s duty of disclosure as defined by 37 C.F.R. § 1.56.

No representation is made or intended as to the completeness of this list, nor is the inclusion of any reference on this list an admission that it is prior art or pertinent to this application.

Applicants believe no fee is due with this submission. If a fee is due, however, the Commissioner is hereby authorized to charge any necessary fee to Account Number 06-0600. A copy of this statement is submitted in duplicate for this purpose.

Respectfully submitted,  
Youngwoo Kwon et al.

Dated: April 8, 2004

By: \_\_\_\_\_

  
John C. Grieger, Reg. No. 51,755  
Carr & Ferrell LLP  
2200 Geng Road  
Palo Alto, CA 94303  
TEL: (650) 812-3400  
FAX: (650) 812-3444

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IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Youngwoo Kwon et al.

SERIAL NO.: 10/737,364

FILED: December 15, 2003

TITLE: High Linearity Doherty Communication Amplifier with  
Phase Control

EXAMINER: Unknown

GROUP ART UNIT: Unknown

ATTY.DKT.NO.: PA2589US

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**List of Co-Pending Patent Applications That May Be Directed  
Towards Similar Subject Matter**

Examiner's Initials	Serial Number	First-Named Inventor	Title	Filing Date
	10/737,476	Youngwoo Kwon	High Linearity Doherty Communication Amplifier with Integrated Output Matching Unit	12/15/2003
	10/690,923	Youngwoo Kwon	High Linearity Doherty Communication Amplifier with Bias Control	10/21/2003
	10/432,553	Youngwoo Kwon	Power Amplification Apparatus of Portable Terminal	05/21/2003
Examiner's Signature:				Date